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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/007,270

DATE: 04/24/2002

TIME: 14:07:55

Input Set : A:\20618120US.app

Output Set: N:\CRF3\04242002\J007270.raw

Does Not Comply  
Corrected Diskette Needed

3 <110> APPLICANT: Hageman, Gregory S.  
4 Kuehn, Markus H.  
5 University of Iowa Research Foundation  
7 <120> TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS FOR OCULAR ABNORMALITIES  
9 <130> FILE REFERENCE: 020618-000120US  
11 <140> CURRENT APPLICATION NUMBER: 10/007,270  
12 <141> CURRENT FILING DATE: 2001-11-08  
14 <150> PRIOR APPLICATION NUMBER: US 09/430,195  
15 <151> PRIOR FILING DATE: 1999-10-29  
17 <150> PRIOR APPLICATION NUMBER: US 09/183,972  
18 <151> PRIOR FILING DATE: 1998-10-29  
20 <160> NUMBER OF SEQ ID NOS: 37  
22 <170> SOFTWARE: PatentIn Ver. 2.1

## ERRORED SEQUENCES

2313 <210> SEQ ID NO: 28  
2314 <211> LENGTH: 771  
2315 <212> TYPE: PRT  
2316 <213> ORGANISM: Homo sapiens X 2207  
2317 <223> OTHER INFORMATION: Human IPM 150 isoform A variant cDNA sequence  
✗ 2319 <400> SEQUENCE: 28  
2320 Met Tyr Leu Glu Thr Arg Arg Ala Ile Phe Val Phe Trp Ile Phe Leu  
2321 1 5 10 15  
2323 Gln Val Gln Gly Thr Lys Asp Ile Ser Ile Asn Ile Tyr His Ser Glu  
2324 20 25 30  
2326 Thr Lys Asp Ile Asp Asn Pro Pro Arg Asn Glu Thr Thr Glu Ser Thr  
2327 35 40 45  
2329 Glu Lys Met Tyr Lys Met Ser Thr Met Arg Arg Ile Phe Asp Leu Ala  
2330 50 55 60  
2332 Lys His Arg Thr Lys Arg Ser Ala Phe Phe Pro Thr Gly Val Lys Val  
2333 65 70 75 80  
2335 Cys Pro Gln Glu Ser Met Lys Gln Ile Leu Asp Ser Leu Gln Ala Tyr  
2336 85 90 95  
2338 Tyr Arg Leu Arg Val Cys Gln Glu Ala Val Trp Glu Ala Tyr Arg Ile  
2339 100 105 110  
2341 Phe Leu Asp Arg Ile Pro Asp Thr Gly Glu Tyr Gln Asp Trp Val Ser  
2342 115 120 125  
2344 Ile Cys Gln Gln Glu Thr Phe Cys Leu Phe Asp Ile Gly Lys Asn Phe  
2345 130 135 140  
2347 Ser Asn Ser Gln Glu His Leu Asp Leu Leu Gln Gln Arg Ile Lys Gln  
2348 145 150 155 160

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```

2350 Arg Ser Phe Pro Asp Arg Lys Asp Glu Ile Ser Ala Glu Lys Thr Leu
2351          165          170          175
2353 Gly Glu Pro Gly Glu Thr Ile Val Ile Ser Thr Asp Val Ala Asn Val
2354          180          185          190
2356 Ser Leu Gly Pro Phe Pro Leu Thr Pro Asp Asp Thr Leu Leu Asn Glu
2357          195          200          205
2359 Ile Leu Asp Asn Thr Leu Asn Asp Thr Lys Met Pro Thr Thr Glu Arg
2360          210          215          220
2362 Glu Thr Glu Phe Ala Val Leu Glu Glu Gln Arg Val Glu Leu Ser Val
2363          225          230          235          240
2365 Ser Leu Val Asn Gln Lys Phe Lys Ala Glu Leu Ala Asp Ser Gln Ser
2366          245          250          255
2368 Pro Tyr Tyr Gln Glu Leu Ala Gly Lys Ser Gln Leu Gln Met Gln Lys
2369          260          265          270
2371 Ile Phe Lys Lys Leu Pro Gly Phe Lys Lys Ile His Val Leu Gly Phe
2372          275          280          285
2374 Arg Pro Lys Lys Glu Lys Asp Gly Ser Ser Ser Thr Glu Met Gln Leu
2375          290          295          300
2377 Thr Ala Ile Phe Lys Arg His Ser Ala Glu Ala Lys Ser Pro Ala Ser
2378          305          310          315          320
2380 Asp Leu Leu Ser Phe Asp Ser Asn Lys Ile Glu Ser Glu Glu Val Tyr
2381          325          330          335
2383 His Gly Thr Met Glu Glu Asp Lys Gln Pro Glu Ile Tyr Leu Thr Ala
2384          340          345          350
2386 Thr Asp Leu Lys Arg Leu Ile Ser Lys Ala Leu Glu Glu Gln Ser
2387          355          360          365
2389 Leu Asp Val Gly Thr Ile Gln Phe Thr Asp Glu Ile Ala Gly Ser Leu
2390          370          375          380
2392 Pro Ala Phe Gly Pro Asp Thr Gln Ser Glu Leu Pro Thr Ser Phe Ala
2393          385          390          395          400
2395 Val Ile Thr Glu Asp Ala Thr Leu Ser Pro Glu Leu Pro Pro Val Glu
2396          405          410          415          420
2398 Pro Gln Leu Glu Thr Val Asp Gly Ala Glu His Gly Leu Pro Asp Thr
2399          420          425          430
2401 Ser Trp Ser Pro Pro Ala Met Ala Ser Thr Ser Leu Ser Glu Ala Pro
2402          435          440          445
2404 Pro Phe Phe Met Ala Ser Ser Ile Phe Ser Leu Thr Asp Gln Gly Thr
2405          450          455          460
2407 Thr Asp Thr Met Ala Thr Asp Gln Thr Met Leu Val Pro Gly Leu Thr
2408          465          470          475          480
2410 Ile Pro Thr Ser Asp Tyr Ser Ala Ile Ser Gln Leu Ala Leu Gly Ile
2411          485          490          495
2413 Ser His Pro Pro Ala Ser Ser Asp Asp Ser Arg Ser Ser Ala Gly Gly
2414          500          505          510
2416 Glu Asp Met Val Arg His Leu Asp Glu Met Asp Leu Ser Asp Thr Pro
2417          515          520          525
2419 Ala Pro Ser Glu Val Pro Glu Leu Ser Glu Tyr Val Ser Val Pro Asp
2420          530          535          540
2422 His Phe Leu Glu Asp Thr Thr Pro Val Ser Ala Leu Gln Tyr Ile Thr

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```

2423 545          550          555          560
2425 Thr Ser Ser Met Thr Ile Ala Pro Lys Gly Arg Glu Leu Val Val Phe
2426          565          570          575
2428 Phe Ser Leu Arg Val Ala Asn Met Ala Phe Ser Asn Asp Leu Phe Asn
2429          580          585          590
2431 Lys Ser Ser Leu Glu Tyr Arg Ala Leu Glu Gln Gln Phe Thr Gln Leu
2432          595          600          605
2434 Leu Val Pro Tyr Leu Arg Ser Asn Leu Thr Gly Phe Lys Gln Leu Glu
2435          610          615          620
2437 Ile Leu Asn Phe Arg Asn Gly Ser Val Ile Val Asn Ser Lys Met Lys
2438 625          630          635          640
2440 Phe Ala Lys Ser Val Pro Tyr Asn Leu Thr Lys Ala Val His Gly Val
2441          645          650          655
2443 Leu Glu Asp Phe Arg Ser Ala Ala Gln Gln Leu His Leu Glu Ile
2444          660          665          670
2446 Asp Ser Tyr Ser Leu Asn Ile Glu Pro Ala Asp Gln Ala Asp Pro Cys
2447          675          680          685
2449 Lys Phe Leu Ala Cys Gly Glu Phe Ala Gln Cys Val Lys Asn Glu Arg
2450          690          695          700
2452 Thr Glu Glu Ala Glu Cys Arg Cys Lys Pro Gly Tyr Asp Ser Gln Gly
2453 705          710          715          720
2455 Ser Leu Asp Gly Leu Glu Pro Gly Leu Cys Gly Leu Ala Gln Arg Asn
2456          725          730          735
2458 Ala Arg Ser Ser Arg Glu Arg Glu Leu His Ala Val Pro Asp His Ser
2459          740          745          750
2461 Glu Asn Gln Ala Tyr Lys Thr Ser Val Lys Ser Ser Lys Ile Asn Lys
2462          755          760          765
2464 ile Thr Arg
2465          770

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## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/007,270

DATE: 04/24/2002

TIME: 14:07:57

Input Set : A:\20618120US.app

Output Set: N:\CRF3\04242002\J007270.raw

L:474 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:240  
L:475 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:300  
L:599 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:1560  
L:675 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:3300  
L:1537 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:112  
L:1591 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:400  
L:1708 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:2880  
L:1742 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:900  
L:1752 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:1500  
L:1792 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:3900  
L:1871 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:304  
L:1907 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:496  
L:2084 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0  
L:2319 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:28  
L:2496 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0  
L:2511 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0  
L:2557 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0  
L:2608 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0